



**SILENT
KNIGHT**

5808 Calculations
Version 05.22.09

Global Project Values:

Project Name:	<input type="text" value="New Yard, LLC"/>	Standby Hours:	<input type="text" value="24"/>
Project ID:	<input type="text"/>	Alarm Mins:	<input type="text" value="5"/>
Prepared By:	<input type="text" value="Kevin Inman"/>	Derating Factor:	<input type="text" value="1.2"/>
Date:	<input type="text" value="11/21/2013"/>	Voltage Drop Warning Threshold %:	<input type="text" value="10"/>

Panel ID:	<input type="text" value="5808"/>	Model:	5808 Add. Fire Alarm Control Panel	Max NAC Current:	3.0 Amps
Location:	<input type="text" value="front door"/>	Volts:	24 VDC	Max Panel Current:	5.0 Amps

Ckt.#	Circuit Name	Qty	Current Draw		Wire AWG & Type	Ohms Per 1000 Ft.	Length(ft) One-Way	Actual Ohms	Volts @ EOL	%Drop
			Standby	Alarm						
5808	5808 CTRL Panel	1	0.170	0.325						
SD500-AIM	Addr. Input Mod		0.000	0.000						
SD500-MIM	Mini-Input Module	8	0.004	0.004						
SD500-ARM	Addr. Relay Module		0.000	0.000						
SD500-PS	Addr. Pull Station	5	0.003	0.003						
SD505-AIS	Addr. Ion Smoke Det		0.000	0.000						
SD505-AHS	Addr. Heat Detector		0.000	0.000						
SD505-APS	Addr. Photo Smoke Det	1	0.001	0.001						
SD505-DUCTR	Addr. Duct w/Relay		0.000	0.000						
SD505-DUCT	Addr. Duct		0.000	0.000						
SD500-ANM	Addr. Notification Module		0.000	0.000						
SD500-LED	Addr. LED Module		0.000	0.000						
SD500-SDM	Addr. Smoke Det. Mod.		0.000	0.000						
SD505-6RB	Addr. Det. Relay Base		0.000	0.000						
SD505-6SB	Addr. Det. Sounder Base		0.000	0.000						
SD505-6IB	Addr. Det. Isolator Base		0.000	0.000						
SD500-LIM	Line Isolation Module		0.000	0.000						
5860	LCD Remote Annunc		0.000	0.000						
5824	Serial/Parallel Module		0.000	0.000						
5496	Power Expander		0.000	0.000						
5895XL	Power Expander		0.000	0.000						
5865-4	LED Annunciator (4G)		0.000	0.000						
5865-3	LED Annunciator (3G)		0.000	0.000						
5880	LED Driver Module		0.000	0.000						
5883	Relay Module		0.000	0.000						
NAC #1	Notification Appl Circuit		0.000	1.590	#14 Solid	2.52	200	1.01	18.80	7.86%
NAC #2	Notification Appl Circuit		0.000	1.590	#14 Solid	2.52	200	1.01	18.80	7.86%
NAC #3	Notification Appl Circuit		0.000	1.060	#12 Solid	1.59	280	0.89	19.46	4.63%
NAC #4	Notification Appl Circuit		0.000	0.884	#12 Solid	1.59	280	0.89	19.61	3.86%
Total Standby Current (Amps)			0.178	5.457	Total Alarm Current (Amps)					
Standby Time In Hours			24	0.083	Alarm Time In Minutes / 60 (5 Mins)					
Total Standby AH Required			4.265	0.455	Total Alarm AH Required					
Total Combined AH Required			4.72		Command Shortcuts					
Multiply By The Derating Factor			1.20							
Minimum Battery AmpHours Required			5.66							

Configure Circuits

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